11920

3 Hours / 70 Marks   Seat No.

Instructions : (1) All Questions are *compulsory*.

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :   **10**

(a) State any four relational operators in 'C'.

(b) Give the syntax for switch case statement.

(c) State the use of continue statement.

(d) Define the term function.

(e) State any two advantages of pointer.

(f) State the use of '&' and '*' operators used with pointer.

(g) Write any two features of structure.

2. Attempt any THREE of the following :   **12**

(a) Describe scanf( ) with its syntax and example.

(b) With suitable example, describe importane of break statement used with switch statement.

(c) State any two advantages and any two limitations of an array.

(d) Differentiate between call by value and call by reference methods for passing parameter. (any four points)

3. **Attempt any THREE of the following :** 12

   (a) Describe with suitable example difference between preincrement and postincrement operator.

   (b) Describe declaration and initialization of two dimensional array.

   (c) Describe pointer arithmetic with any two operations.

   (d) With example describe enumerated data type.

4. **Attempt any THREE of the following :** 12

   (a) Write an algorithm and draw flowchart to find whether entered number is even or odd.

   (b) Write a program in 'C' to print the table for entered number.

   (c) Describe following functions with their syntax and example.

      (i) strcat( )

      (ii) strcmp( )

   (d) Write a 'C' program to calculate sum of elements of given array using pointer.

   (e) Write a 'C' program to create a structure with members as day, month and year. Assign initial values to that structure and display it.

5. **Attempt any TWO of the following :** 12

   (a) Describe use of nested if-else statement with syntax and example.

   (b) Write a 'C' program to find largest number from an array of 10 numbers.

   (c) Write a 'C' program to display fibbonacci series using recursion.

6. **Attempt any TWO of the following :** 12

   (a) Write a 'C' program to accept two strings from user. Display length of both the strings. Also concatenate two strings and display the output.

   (b) Write a 'C' program to accept two numbers. Write a function add( ) to display addition of entered number. Write a function multiply( ) to display multiplication of entered number.

   (c) Write a 'C' program to declare structure 'employee' having data members as empid, empname. Accept this data for 5 employees and display it.

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